

Kansas Bioscience Industry Resource Inventory

by

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Intersession Workshop

January 4-6, 2006

K-State University

Kansas Economic Growth Act

- April 19, 2004 signed into law
- House passed 121-2; Senate passed 38-2
- Invests \$580 million over 10 years
- Advance bioscience industry/jobs in state
- Recruit/keep bright people in state
- Expand bioscience-based industry
- Build high quality bioscience workforce
- Foster technologically rich environment for bioscience research that expand industry and create jobs

National Biosciences Trends

- Bioscience industry growing 12 %/year
- Biosciences estimated to be 18 % of economy in 20 years
- Bioscience industry investment in R&D is \$8 billion more than NIH annual research budget
- Compete with other states; Georgia (\$350M), Wisc. (\$317M), Texas (\$850M), Ohio (\$1.6B), Missouri (\$190M), Washington (\$750M)

Kansas Bioscience Base

- > 160 bioscience companies employ 13,000
- > 8,500 in biosciences in Ks universities
- Strengths across human, animal, plant, industrial, environmental areas
- Kansas City metropolitan area has national attention in biosciences (Stowers Institute)

Expected Outcomes

- Recruit world-class researchers
- Fund lab space/equipment in key fields
- Attract federal funding by matching
- Drive technology transfer & commercialization
- Encourage collaboration between industry/academia
- Support growth of bioscience industry base
- Incentive programs for locating in Kansas

Funding Sources

- \$580,000,000 estimated to be available over 10 years
- Taxes from existing bioscience firms pooled and earmarked for Bioscience Authority
- Growth of state tax base in bioscience industry and research institutions will provide major funding

Kansas Bioproduct Roadmap: An Inventory & Plan for Bioproduct Development & Commercialization

- Bioscience Initiative is important opportunity to build on important Ks resources; agriculture, biobased industry, skilled workforce.
- Funding dependent on income from existing industry base. By recognizing emerging bioscience capabilities of existing Ks industries, we broaden partnership potential and capture tax revenues.
- SIC codes force company to describe themselves by their primary area of emphasis. If a bioscience-based division is emerging or developing in a company, it may not be recognized.

Topic Areas From Bioscience Initiative Analysis

- Advanced Materials & Medical Devices
- Drug Discovery, Delivery & Pharmacogenomics
- Health Related IT: Bioinformatics & Telemedicine
- Animal Sciences
- Plant Sciences
- Biomass, Biofuels, Biomaterials & Environment

Work Plan

- Begin with Biofuels, Renewable Energy, Bioproducts.
- Establish format for collecting company data.
- Develop questionnaire/survey for collecting information.
- Report survey information:
 - Identifies companies in the industry
 - Summarizes research activity in state
 - Provides overall assessment of growth potential in state.

Data Collection

- Utilize existing SIC codes as a starting point.
- Collect data from
 - K-State Extension resources,
 - Ks Dept of Commerce industry data base,
 - Mailed survey responses.

Results Utilization

- Company data will be summarized in a searchable, accessible data base.
- Mechanism will be established for keeping inventory data base up-to-date.
- Effort will be made to incorporate information with SIC code data base.
- Expand program to include other bioscience initiative industries to expand tax base available.

Project Team

- Department of Commerce – Jesse McCurry
- Kansas State University
 - Richard Nelson – Engineering Extension
 - Ron Madl – Director, Bioprocessing & Industrial Value added Programs (BIVAP)
- Pinnacle Technology, Inc.
 - Donna Johnson, President